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ST. CLOUD, MN 56301  
320 252-4414  
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*278*  
Reply to Minneapolis  
Malcolm D. Reid  
612 632-3304  
malcolm.reid@gpmlaw.com

January 20, 2005

**VIA FIRST CLASS MAIL**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

In re application of: Ravenscroft, Keith N. et al.  
Application No.: 10/840,028  
Filed: May 5, 2004  
Title: COMPOSITION AND METHOD FOR METAL COLORING PROCESS  
Group Art Unit: 1742  
Attorney Docket No.: 88369-CON

**TRANSMITTAL LETTER**

Dear Sir:

Enclosed for filing with the United States Patent and Trademark Office, please find:

1. Transmittal Letter, including Certificate of First Class Mailing under 37 C.F.R. 1.8 (2 Sheets);
2. Information Disclosure Statement under 37 CFR §1.97(b);
3. Information Disclosure Statement by Applicant (Form PTP/SB/08A & B – 6 Sheets);
4. Copies of foreign patent and non-patent references cited by Applicant; and,
5. Postage-paid return postcard itemizing the above documents.

Although we believe that no fees are due, please charge Deposit Account 50-0937 any fees required at this time. If you have any questions, please contact me.

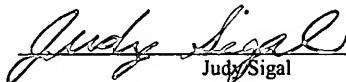
Very truly yours,

Malcolm D. Reid (27,065)  
Attorney for Applicants

Commissioner for Patents  
Page 2  
January 20, 2005

**Certificate of First Class Mailing under 37 C.F.R. §1.8**

I hereby certify that the following identified correspondence is being mailed with sufficient postage for First Class Mail to the United States Patent and Trademark Office on January 20, 2005: Transmittal Letter, including Certificate of First Class Mailing under 37 C.F.R. 1.8 (2 Sheets); Information Disclosure Statement under 37 CFR §1.97(b); Information Disclosure Statement by Applicant (Form PTP/SB/08A & B – 6 Sheets); Copies of foreign patent and non-patent references cited by Applicant; and, Postage-paid return postcard itemizing the above documents.

  
\_\_\_\_\_  
Judy Sigal

Enclosures/GP:1669781 v1



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of

Ravenscroft, Keith N. et al.

Application Number

10/840,028

Filing Date

May 5, 2004

Art Unit

1742

For:

**COMPOSITION AND METHOD  
FOR METAL COLORING  
PROCESS**

Examiner

Zheng, Lois L.

File No.:

88369-CON

**Information Disclosure Statement  
Under 37 CFR §1.97(b)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Applicants request that the references listed on the enclosed Forms PTP/SB/08A & B be considered by the Examiner in the examination of this application.

Applicant does not represent that this list is a complete state of the prior art. The enclosed reference list is not intended to replace the Examiner's search. It is respectfully submitted that the examiner proceed with an independent and complete search of the prior art in the examination of this application.

Respectfully submitted,

By: Malcolm D. Reid  
Malcolm D. Reid  
Reg. No. 27,065  
Gray, Plant, Mooty, Mooty & Bennett, P.A.  
P.O. Box 2906  
Minneapolis, MN 55402-0906

January 20, 2005

GP:1669786 v1



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Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 6

**Complete if Known**

Application Number	10/840,028
Filing Date	05/05/2004
First Named Inventor	Ravenscroft, Keith N
Art Unit	1742
Examiner Name	Zheng, Lois L.
Attorney Docket Number	88369-CON

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
A	US- 2,148,331		02/21/1939	Weisberg et al.	
B	US- 2,774,696		12/18/1956	Gibson, Robert C.	
C	US- 2,791,525		05/07/1957	Rausch et al.	
D	US- 2,805,969		09/10/1957	Goodspeed et al.	
E	US- 2,817,610		12/24/1957	Newell et al.	
F	US- 2,835,616		05/20/1958	Rausch et al.	
G	US- 2,850,417		09/02/1958	Jenkins et al.	
H	US- 2,960,420		11/15/1960	Mitchell, Abraham J.	
I	US- 3,053,691		09/11/1962	Hartman et al.	
J	US- 3,053,692		09/11/1962	Pocock, Walter E.	
K	US- 3,083,149		03/26/1963	Cranston, Hoy A.	
L	US- 3,121,033		02/11/1964	Stapleton, John M.	
M	US- 3,346,522		10/10/1967	Schuster et al.	
N	US- 3,481,762		12/02/1969	Streicher, Michael A	
O	US- 3,559,280		02/02/1971	Mailhiot et al.	
P	US- 3,598,659		08/10/1971	Klingler et al.	
Q	US- 3,632,452		01/04/1972	Matsushima et al.	
R	US- 3,649,371		03/14/1972	Tongyai, Shingkata	
S	US- 3,658,603		04/25/1972	Boyer, Charles D.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

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(Use as many sheets as necessary)

Sheet **2**of **6****Complete if Known**

Application Number	10/840,028
Filing Date	05/05/2004
First Named Inventor	Ravenscroft, Keith N
Art Unit	1742
Examiner Name	Zheng, Lois L.

Attorney Docket Number **88369-CON****U. S. PATENT DOCUMENTS**

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		Number-Kind Code <sup>2</sup> (if known)			
T	US- 3,677,827		07/18/1972	Weaver et al.	
U	US- 3,706,604		12/19/1972	Plaxton, Elmer H.	
V	US- 3,709,742		01/09/1973	Jacobs, John J.	
X	US- 3,753,942		08/21/1973	Moran, et al.	
Y	US- 3,806,375		04/23/1974	McLeod et al.	
Z	US- 3,879,237		04/22/1975	Faigen et al.	
aa	US- 3,899,367		08/12/1975	Mitchell, Abraham J.	
ab	US- 3,929,514		12/30/1975	Houlihan et al.	
ac	US- 3,936,445		02/03/1976	Pfitzner et al.	
ad	US- 4,006,041		02/01/1977	Fabregas et al.	
ae	US- 4,017,335		04/12/1977	Maloney; James E.	
af	US- 4,018,934		04/19/1977	Parliment; Thomas H	
ag	US- 4,086,182		04/25/1978	Hengelhaupt et al.	
ah	US- 4,140,551		02/20/1979	Jones; William C.	
ai	US- 4,246,030		01/20/1981	Lipinski; Richard J.	
aj	US- 4,296,182		10/20/1981	Matsubayashi et al.	
ak	US- 4,298,405		11/03/1981	Saus et al.	
al	US- 4,565,585		01/21/1986	Matsuda; Shigeki	
am	US- 4,591,397		05/27/1986	Jones et al.	

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Examiner Signature

Date Considered

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 3

of 10

## Complete if Known

Application Number	10/840,028
Filing Date	05/05/2004
First Named Inventor	Ravenscroft, Keith N
Art Unit	1742
Examiner Name	Zheng, Lois L.
Attorney Docket Number	88369-CON

## U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
Number-Kind Code <sup>2</sup> (if known)					
an	US- 4,728,365	03/01/1988	Jarvi; Paul		
ao	US- 4,781,948	11/01/1988	Caldwell; David		
ap	US- 4,789,409	12/06/1988	Jarvi; Paul R.		
aq	US- 4,794,139	12/27/1988	Braden et al.		
ar	US- 4,806,161	02/21/1989	Fabiny et al.		
as	US- 4,944,812	07/31/1990	Lindert et al.		
at	US- 5,089,349	02/18/1992	Kaiser; Herbert J.		
au	US- 5,104,463	04/14/1992	Menke; Joseph T.		
av	US- 5,320,872	06/14/1994	McNeel et al.		
aw	US- 5,466,297	11/14/1995	Goodman et al.		
ax	US- 5,580,063	12/03/1996	Edwards; A. W.		
ay	US- 5,591,275	01/07/1997	Miyafuji et al.		
az	US- 5,601,663	02/11/1997	Rungta et al.		
ba	US- 5,667,599	09/16/1997	Rungta et al.		
bb	US- 5,704,995	01/09/1998	Bradley; Johnny L.		
bc	US- 5,723,183	03/03/1998	Williams et al.		
bd	US- 5,919,318	07/06/1999	Brands et al.		
be	US- 6,171,409	01/09/2001	Hamacher et al.		
bf	US- 6,193,815	02/27/2001	Wada et al.		

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
Country Code <sup>3</sup> "Number <sup>4</sup> "Kind Code <sup>5</sup> (if known)						

Examiner Signature		Date Considered
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**Substitute for form 1449/PTO**

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

**(Use as many sheets as necessary)**

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of 6

**Complete if Known**

Application Number 10/840,028

Filing Date 05/05/2004

First Named Inventor: Ravenscroft, Keith N.

Art Unit 1743

Examiner Name Zheng Lois I

Examiner Name: Zheng, Luis E.  
Attorney Docket Number: 88360 CON

Attorney Docket Number 88389-CON

## DOCUMENTS

Name of Patentee or Page

## U. S. PATENT DOCUMENTS

## FOREIGN PATENT DOCUMENTS

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	Type Code <sup>2</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	bm	DE-4217098	11/26/1992	Uehara et al.		
	bn	DE-2623604	12/23/1976	Okabe, et al.		
	bo	EP-0264471	04/27/1988	Fabregas, et al		
	bp	EP-0264472	04/27/1988	Fabregas, et al		
	bq	JP-S62-186466	07/23/1987	Nakamura, et al		

Examiner Signature		Date Considered	
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				Application Number	10/840,028
				Filing Date	05/05/2004
				First Named Inventor	Ravenscroft, Keith N
				Art Unit	1742
				Examiner Name	Zheng, Lois L.
Sheet	5	of	6	Attorney Docket Number	88369-CON

<b>NON PATENT LITERATURE DOCUMENTS</b>			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	br	BIRCHWOOD LABORATORIES, INC. "Safe, Low Cost, In-house Blackening with the Presto® Black Process," Birchwood Laboratories, Inc., Eden Prairie, MN; no date (6 pages).	
	bs	BIRCHWOOD CASEY, "Guide to Room Temperature Antiquing without Hazardous Effluent"; Birchwood Casey; Eden Prairie, MN (no date).	
	bt	BIRCHWOOD CASEY, In-House Blackening with No EPA Regulated Chemicals brochure; Birchwood Casey; Eden Prairie, MN (No Date).	
	bu	BIRCHWOOD CASEY, "Your Practical Guide and Cost Analysis"; Birchwood Casey; Eden Prairie, MN; Aug. 1997.	
	bv	COTTON, F. Albert and WILKINSON, Geoffrey, "Advanced Inorganic Chemistry A comprehensive Text", Interscience Publishers, NY, pp. 847-863, (1962, no month).	
	bw	DANIELS, Christopher; "Black-Oxide Basics: Improved protection, appearance and performance with black oxide finishes", Products Finishing; July, 1992.	
	bx	DU-LITE, "DULITE'S® Guide to Hot Black Oxide Processes", The Du-Lite Corporation; Middletown CT; 1994 (no month).	
	by	GODDING, A. D.; "The Basics of Black Oxide Finishing: Why to do it, how to do it, applications and advantages", Products Finishing; February, 1990.	
	bz	GODDING, A. D.; "Why Black Oxide? Here's how and why", Products Finishing; April, 1986.	
	ca	HEATBATH Corporation, "It Doesn't Get Any Blacker than This" with supporting pages from <a href="http://www.heatbath.com/black-oxide-finishing.htm">www.heatbath.com/black-oxide-finishing.htm</a> ; Finisher's Management et al, March 1996.	

Examiner Signature		Date Considered
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				First Named Inventor	Ravenscroft, Keith N
				Art Unit	1742
				Examiner Name	Zheng, Lois L.
Sheet	6	of	6	Attorney Docket Number	88369-CON

<b>NON PATENT LITERATURE DOCUMENTS</b>				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>2</sup>
	cb	HUBBARD-HALL, "Activated' Black Magic 'Plus': The cutting edge for quality and performance when hot black oxidizing steel;" Hubbard-Hall; Waterbury, CT (no date).		
	cd	HUBBARD-HALL, "Activated Black Magic Plus" <a href="http://www.hubbard-hall.com/files/2232001.pdf">http://www.hubbard-hall.com/files/2232001.pdf</a> ; Hubbard-Hall, Waterbury, CT; 2003		
	ce	RUHLAND, Mark; "Blackening of Ferrous Metals;" Birchwood Casey and PF Directory; Eden Prairie, MN, (1999; no month).		
	cf	NATIONAL TOXICOLOGY PROGRAM; "Thiourea--CAS No. 62-56-6: First listed in the Third Annual Report on Carcinogens"; Tenth Report on Carcinogens; date unknown.		
	cg	RADIAN CORPORATION; "N,N'-Diethylthiourea", NTP Chemical Repository (Radian Corporation); Aug. 29, 1991.		
	ch	BIRCHWOOD CASEY, "Material Safety Data Sheet: Presto® Black Brush-On BST4 "; Birchwood Laboratories, Inc.; Eden Prairie, MN ; April 2, 2001.		

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